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## Model #: SU2200XLNAFTA

### SmartOnline Expandable Tower UPS System - NAFTA assembled version of SU2200XL



#### Highlights

- 2200VA / 2.2kVA on-line, double-conversion, extended-run tower UPS
- Maintains sine-wave 110/120V +/-2% output during overvoltages to 138 and brownouts as low as 65V (50/60Hz auto-sensing)
- Simultaneous communications via HID compliant USB port, serial port, SNMP/Web card slot and EPO interface
- Fault tolerant auto-bypass mode, current monitoring and switched PDU control via 2 switchable output load banks
- Input: NEMA 5-20P (120V, optional 5-15P included) / Output: 6 NEMA 5-15/20R and 1 NEMA L5-20R (120V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada only)

#### Description

2200VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. Upright tower form factor. Expandable battery runtime with optional BP48V60-3UNAFTA external battery packs. Full-time sine wave 110 or 120V +/-2% output. Online, double-conversion Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 138V. NEMA 5-20P input plug (optional 5-15P included); NEMA 5-15/20R and NEMA L5-20R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated 2-bank PDU switching supports load shedding and remote-reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 [connected equipment insurance](#); extended warranty and service contracts available

#### Applications

- Ideal for protection of critical servers, internetworking equipment and other sensitive electronic loads. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

- SU2200XLNAFTA UPS System
- PowerAlert Software and cabling
- Instruction manual with warranty information

#### Features

- SmartOnline high performance UPS system is ideal for critical voice, data, medical and industrial network applications

- True on-line, double-conversion UPS provides perfectly regulated sine wave output within 2% of 110/120V (user selectable) under all usage conditions
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 65V and as high as 138V back to selectable 110/120V (+/-2%) values
- Standard internal battery set offers 14 minutes runtime at half load (800W) and 4.5 minutes at full load (1600W)
- Optional BP48V60-3UNAFTA external battery packs offer expandable battery runtime
- Space saving upright tower format
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS suffers internal failure and requires maintenance
- Network interfaces support simultaneous communications via built-in USB, DB9 serial and SNMPWEBCARD slot
- HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- Built-in Emergency Power Off (EPO) interface with cable
- NEMA 5-20P input plug (user-installable NEMA 5-15P replacement plug included)/NEMA 5-15/20R & NEMA L5-20R output receptacles
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user required
- Single line TEL/DSL or network ethernet line surge suppression
- 2 year manufacturer's product warranty, \$250,000 [Ultimate Lifetime Insurance](#)

## Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC (110/120V)
Frequency compatibility	50/60 Hz compatible (auto-sensing)
OUTPUT	
Output VA	2200
Output watts	1600
Output nominal voltage	120V AC (110/120V)
Output voltage regulation	Maintains full-time sine wave output within 2% of selected nominal, less than 3% total harmonic distortion (linear load) / 5% total harmonic distortion (computer load) (Less than 5% THD on-line and on-battery)
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	6 NEMA 5-15/20R, 1 NEMA L5-20R
Customized load management receptacles	2 controllable load banks support load shedding and remote reboot on demand of locked network devices (3 outlets per load bank)
Overload protection	Via 30A input breaker
INPUT	
Maximum input amps	16A (120V) / 17.6 (110V)
Input connection type	NEMA 5-20P (user installable NEMA 5-15P also included)
Input cord length	10ft / 3m

<b>Recommended Electrical Service</b>	120V 20A dedicated circuit
<b>BATTERY</b>	
<b>Full load runtime</b>	4.5 minutes with internal batteries (1600w)
<b>Half load runtime</b>	14 minutes with internal batteries (800w)
<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery pack BP48V60-3UNAFTA (multi-pack compatible)
<b>DC system voltage</b>	48VDC
<b>Typical battery lifespan</b>	3-6 years, depending on usage
<b>Battery recharge rate</b>	Less than 5 hours to 90%
<b>Replacement Battery Cartridge</b>	RBC48-SUTWR
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	On-line, double-conversion power conditioning maintains output within 2% of 110/120 volts at all times
<b>Overvoltage correction</b>	Maintains output of selected nominal +/-2% during overvoltages to 138V AC
<b>Brownout correction</b>	Maintains output of selected nominal +/-2% during undervoltages to 65V AC (at loads greater than 70% undervoltage correction extends to 80V)
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	LED STATUS DISPLAY: line power (green), online (green), bypass (yellow), on battery (green), overload (red), battery low (yellow) - 4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%).
<b>Alarms</b>	Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 seconds on / 0.5 seconds off), low battery warning (1.25 seconds on / 0.5 seconds off), overload (sounds continuously), UPS fault (4.2 seconds on / 1 second off), input voltage out of frequency (2.1 seconds on / 0.14 seconds off) and high input voltage (2.1 seconds on / 0.07 seconds off)
<b>Switches</b>	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 seconds, but less than 4 seconds
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	570 joules
<b>AC suppression response time</b>	Instantaneous
<b>Dataline suppression</b>	Set of 8 wire RJ style interface jacks offer surge suppression for network ethernet or TEL/DSL connection. Pins 1,2,3 and 6 offer ethernet protection starting at 7.5V and the center two wires, pins 4 & 5, offer TEL/DSL line suppression starting at 260V
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	58.6
<b>Shipping weight (kg)</b>	26.6
<b>Shipping Dimensions (HWD/in)</b>	15.25 X 13 X 24
<b>Shipping Dimensions (HWD/cm)</b>	38.7 X 33 X 61
<b>Unit weight (lbs)</b>	53.4
<b>Unit weight (kg)</b>	24.2

<b>Unit Dimensions (HWD/in)</b>	10.25 X 9 X 19.5
<b>Unit Dimensions (HWD/cm)</b>	26 X 22.9 X 49.5
<b>Material of construction</b>	Steel
<b>Form factors supported</b>	Tower
<b>Cooling method</b>	Built-in cooling fan
<b>Battery Access</b>	User replaceable, hot swap battery replacement supported via access panel
<b>ENVIRONMENTAL</b>	
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>Storage Temperature</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Operating Temperature</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Line mode BTU/hr. (Max.)</b>	792 BTU/hr.
<b>Battery mode BTU/hr. (Max.)</b>	741 BTU/hr.
<b>Audible Noise</b>	less than 45 dB @ 1m
<b>COMMUNICATIONS</b>	
<b>Network monitoring port</b>	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
<b>Software and cabling included</b>	Yes, includes PowerAlert software CD-ROM and complete cabling
<b>SNMP compatibility</b>	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)
<b>WatchDog compatibility</b>	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment ideal for unattended kiosk applications
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode</b>	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When commercial power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
<b>Low voltage transfer to battery power</b>	Maintains continuous operation during undervoltages as low as 65V (80V at load levels over 70%). Below this switchover point, output is supported from battery derived AC power.
<b>High voltage transfer to battery power</b>	Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power.
<b>SPECIAL FEATURES</b>	
<b>EPO port</b>	Supports "Emergency Power Off" via set of dedicated built-in EPO jacks
<b>Cold Start</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance</b>	Attractive black steel housing
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional)</b>	BP48V60-3UNAFTA (optional)
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA), CSA (Canada), NOM (Mexico), Class A (emissions), FCC Part 68 / Industry Canada (telecommunications), RoHS Compliant
<b>WARRANTY</b>	

<b>Product Warranty Period</b>	2 year product warranty
<b>Connected Equipment Coverage</b>	\$250,000 connected equipment insurance (USA and Canada only)
<b>Optional Coverage</b>	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.

## Related Items

<b>Audio Cables</b>		
CT120	Instant-Read- AC Outlet Circuit Tester	Qty: [optional]

<b>External Battery Packs</b>		
BP48V24-2U	BP48V242U - External Battery Pack for UPS System	Qty: [optional]
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	Qty: [optional]

<b>Shutdown Cable Kits</b>		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]

<b>SNMP Accessories</b>		
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	Qty: [optional]
SNMPWEBCARD	For remote monitoring and control via SNMP, Web or telnet.	Qty: [optional]

<b>Surge Protectors</b>		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=3543](http://www.tripplite.com/en/products/model.cfm?txtModelID=3543).